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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Manoharan et al.

Serial No.: 09/970,971

Group Art Unit: Not yet assigned

Filing Date: October 4, 2001

Examiner: Not yet assigned

For: OLIGONUCLEOTIDES HAVING A-DNA FORM AND B-DNA FORM
CONFORMATIONAL GEOMETRY

DATE OF DEPOSIT: December 17, 2001

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REGISTRATION NO.: 48,491

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).



In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

- ☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐the first or ☐second After Final Submission, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
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- ☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore:
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- ☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- EXCEPT THAT:
- ☒ In view of the voluminous nature of references **ES-EV**, and the likelihood that these references were available to the Examiner, copies were not enclosed with the Information Disclosure Statement filed in Serial No. 09/303,586.

☒ In accordance with §1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. §120 have been made in the instant application:

☒ Copies of references **AA-EV, GT-HO, IR-JC and JG** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/303,586, filed May 3, 1999. Copies of references **EW-GS, HP-IQ and JI** were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 08/936,166, filed September 23, 1997, now U.S. Patent No. 6,307,040.

☒ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

Copies of newly cited references **JD-JF, JH and JJ** are enclosed herewith.

Serial No. 08/837,201 filed April 14, 1997; Serial No. 09/044,506 filed March 19, 1998 and Serial No. 09/062,416 filed April 17, 1998, were previously cited in the parent application Serial No. 09/303,586 filed May 3, 1999, and have now issued as U.S. Patent Nos. **5,985,558 (JD), 5,955,443 (JE) and 6,111,094 (JF)**, respectively.

Prior application Serial No. 08/936,166 filed September 23, 1997 is now U.S. Patent No. **6,307,040 (JJ)**.

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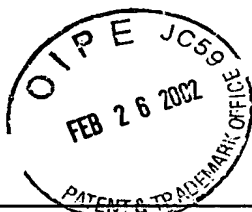
English language abstracts were provided for those listed references which are not in the English language.

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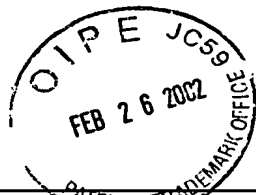
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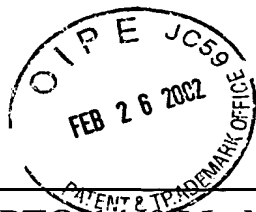
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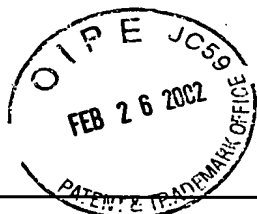
Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-4789	Serial No. 09/970,971
		Applicant Manoharan et al.	
		Filing Date October 4, 2001	Group Not yet assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Abe, A. et al., "Conformational Energies and the Random-Coil Dimensions and Dipole Moments of Polyoxides CH ₃ O[(CH ₂) _y O] _x CH ₃ ," <i>J. Am. Chem. Soc.</i> , 1976 , 6468-6476	
	AB	Albert, P.R. et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>Trends Pharmacol. Sci.</i> , 1994 , 15, 250-254	
	AC	Altmann, K. et al., "Second Generation Antisense Oligonucleotides-Inhibition of Pkc-1 And c-RAF Kinase Expression by Chimeric Oligonucleotides Incorporating 6-Substituted Carbocyclic Nucleosides and 2'-O-Ethylene Glycol Substituted Ribonucleosides," <i>Nucleosides & Nucleotides</i> , 1997 , 16(7-9), 917-926	
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	AE	Altmann, K. et al., "Second Generation of Antisense Oligonucleotides: From Nuclease Resistance to Biological Efficacy in Animals," <i>Chimia</i> , 1996 , 50, 168-176	
	AF	Baker, B.F. et al., "2'-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", <i>J. Biol. Chem.</i> , 1997 , 272, 11994-12000	
	AG	Beal, P. A. et al., "Second Structural Motif for Recognition of DNA by Oligonucleotide-Directed Triple-Helix Formation," <i>Science</i> , 1991 , 251, 1360-1363	
	AH	Beaucage, S.L. et al., "Advances in the Synthesis of Oligonucleotides by the Phosphoramidite Approach", <i>Tetrahedron</i> , 1992 , 48, 2223-2311	
	AI	Berger et al., "Crystal structures of B-DNA with incorporated 2'-deoxy-2'-fluoro-arabino-furanosyl thymine: implications of conformational preorganization for duplex stability," <i>Nucl. Acids Res.</i> , 1998 , 26(10), 2473-2480	
	AJ	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987 , 2263-2277	
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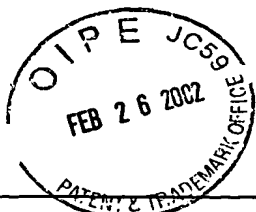
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	AK	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987 , 2283-2287	
	AL	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987 , 2286-2293	
	AM	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15 th Edition, Rahway, NJ, 1987 , 2301-2310	
	AN	Bernhard, E.J. et al., "Direct Evidence Linking Expression of Matrix Metalloproteinase 9 (92-kDa gelatinase/collagenase) to the metastatic phenotype in transformed rat embryo cells," <i>Proc. Natl. Acad. Sci. USA</i> , 1994 , <i>91</i> , 4293-4297	
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	AP	Bock, L. C. et al., "Selection of Single-Stranded DNA Molecules that Bind and Inhibit Human Thrombin," <i>Nature</i> , 1992 , <i>355</i> , 564-566	
	AQ	Böggemeyer, E. et al., "Borrelia Burgdorferi Upregulates the Adhesion Molecules E-selectin, P-selectin, ICAM-1 and VCAM-1 on Mouse Endothelioma Cells in vitro," <i>Cell Adhes. Commun.</i> , 1994 , <i>2</i> , 145-157	
	AR	Conte, M. R. "Confirmational Properties and Thermodynamics of the RNA Duplex r(CGCAAUUGCG)2: Comparison with the DNA Analogue d(CGCAAATTGCG)2," <i>Nucl. Acids Res.</i> , 1997 , <i>25(13)</i> , 2627-2634	
	AS	Cornell, W. D. et al., "A Second Generation Force Field for the Simulation of Proteins, Nucleic Acids, and Organic Molecules," <i>J. Am. Chem. Soc.</i> , 1995 , <i>117</i> , 5179-5197	
	AT	Cory, A.H. et al., "2'-Deoxy-2'-Methylene Derivatives of Adenosine, Guanosine, Tubercidin, Cytidine and Uridine as Inhibitors of L1210 Cell Growth in Culture," <i>Biochem. Pharmacol.</i> , 1994 , <i>47(2)</i> , 365-371	
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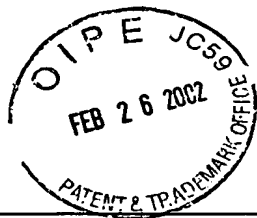
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	AU	Cowser, L. M. et al., "In vitro and In Vivo Activity of Antisense Inhibitors of ras: Potential for Clinical Development," <i>Anti-Cancer Drug Design</i> , 1997 , <i>12</i> , 359-371	
	AV	Crooke, S.T. et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Therapeutics</i> , 1996 , <i>277</i> , 923-937	
	AW	Crooke, S.T. et al., "Kinetic characteristics of <i>Escherichia coli</i> RNase H1: cleavage of various antisense oligonucleotide-RNA duplexes", <i>Biochem. J.</i> , 1995 , <i>312</i> , 599-608	
	AX	Crooke, S. T. , "Progress in Antisense Therapeutics," <i>Medicinal Research Reviews</i> , 1996 , <i>16(4)</i> , 319-344	
	AY	Damha, M.J. et al., "An improved procedure for derivatization of controlled-pore glass beads for solid-phase oligonucleotide synthesis", <i>Nucl. Acids Res.</i> , 1990 , <i>18</i> , 3813-3821	
	AZ	Damha et al., "Hybrids of RNA and Arabinonucleic Acids (ANA and 2'F-ANA) Are Substrates of Ribonuclease H," <i>J. Am. Chem. Soc.</i> , 1998 , <i>120</i> , 12976-12977	
	BA	De Mesmaeker, A. et al., "Antisense Oligonucleotides", <i>Acc. Chem. Res.</i> , 1995 , <i>28</i> , 366-374	
	BB	Dean, N.M. et al., "Inhibition of protein kinase C- α expression in mice after systemic administration of phosphorothioate antisense oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci.</i> , 1994 , <i>91</i> , 11762-11766	
	BC	DeLisser, H. M. et al., "Molecular and Functional Aspects of PECAM-1/CD31," <i>Immunol. Today</i> , 1994 , <i>15(10)</i> , 490-494	
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	BE	Downward, J. et al., "The ras Superfamily of Small GTP-binding proteins," <i>TIBS</i> , 15 , 1990 , 469-472	
	BF	Egli, M. et al., "RNA Hydration: A Detailed Look," <i>Biochemistry</i> , 1996 , <i>35</i> , 8489-8494	
	BG	Englisch, U. et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angew. Chem. Int. Ed. Eng.</i> , 1991 , <i>30</i> , 613-629	
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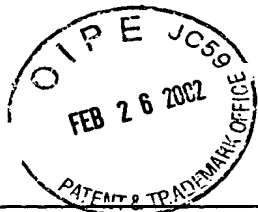
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	BH	Fedoroff, O. Y. et al., "Structure of a DNA: RNA Hybrid Duplex Why Rnase H Does Not Cleave Pure RNA," <i>J. Mol. Biol.</i> , 1993 , 233, 509-523	
	BI	Flanagan et al., "Cellular penetration and antisense activity by a phenoxazine-substituted heptanucleotide," <i>Nat. Biotechnol.</i> , 1999 , 17(1), 48-52	
	BJ	Fraser, A. et al., "Synthesis and Conformational Properties of 2'-Deoxy-2'-methylthio-pyrimidine and -purine Nucleosides: Potential Antisense Applications," <i>J. Heterocycl. Chem.</i> , 1993 , 30, 1277-1287	
	BK	Freier, S.M. et al., "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes", <i>Nucl. Acids Res.</i> , 1997 , 25, 4429-4443	
	BL	Gaffney, B.L. et al., "A New Strategy for the Protection of Deoxyguanosine During Oligonucleotide Synthesis", <i>Tetrahedron Letts.</i> , 1982 , 23, 2257-2260	
	BM	Gao, Y-G. et al., "Molecular Structure of a DNA Decamer Containing an Anticancer Nucleoside Arabinosylcytosine: Conformational Perturbation by Arabinosylcytosine in B-DNA," <i>Biochem.</i> , 1991 , 30(41), 9922-9931	
	BN	Gmeiner, W.H. et al., "Effect of Cytarabine on the NMR Structure of a Model Okazaki Fragment from the SV40 Genome," <i>Biochem.</i> , 1999 , 38, 1166-1175	
	BO	Gonzalez, C. et al., "Structure and Dynamics of a DNA-RNA Hybrid Duplex with a Chiral Phosphorothioate Moiety: NMR and Molecular Dynamics with Conventional and Time-Averaged Restraints," <i>Biochemistry</i> , 1995 , 34, 4969-4982	
	BP	Gotfredsen, C.H. et al., "Novel Oligodeoxynucleotide Analogues Containing A 2'-O-Methylarabinonucleoside," <i>Tetra. Lett.</i> , 1994 , 35(37), 6941-6944	
	BQ	Gotfredsen, C.H. et al., "Synthesis and Properties of α - and β -Oligodeoxynucleotides Containing α - and β -1-(2-O-Methyl-D-arabino-furanosyl)thymine," <i>Bioorg. Med. Chem.</i> , 1996 , 4(8), 1217-1225	
	BR	Gotfredsen, C.H. et al., "Structure of a DNA Duplex Containing a Single 2'-O-Methyl- β -D-araT: Combined Use of NMR, Restrained Molecular Dynamics, and Full Relaxation Matrix Refinement," <i>Bioconjugate Chem.</i> , 1996 , 7, 680-688	
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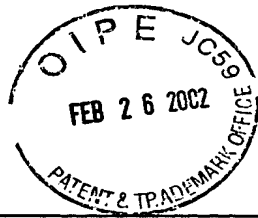
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	BS	Griffin, L. C. et al., "In Vivo Anticoagulant Properties of a Novel Nucleotide-Based Thrombin Inhibitor and Demonstration of Regional Anticoagulation in Extracorporeal Circuits," <i>Blood</i> , 1993 , <i>81</i> , 3271-3276	
	BT	Griffiths, C.E.M. et al., "Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1) Expression Precedes Derman T Lymphocyte Infiltration in Allergic Contact Dermatitis (<i>Rhus dermatitis</i>)", <i>Am. J. Pathology.</i> , 1989 , <i>135</i> , 1045-1053	
	BU	Gum, R. et al., "Stimulation of 92-kDa Gelatinase B Promoter Activity by ras Is Mitogen-activated Protein Kinase Kinase 1-independent and Requires Multiple Transcription Factor Binding Sites Including Closely Spaced PEA3/ets and AP-1 Sequences," <i>J. Biol. Chem.</i> , 1996 , <i>271</i> (18), 10672-10680	
	BV	Guzaev A. et al., "Synthesis of C-Radiolabeled Oligonucleotides with a Novel Phosphoramidite Reagent," <i>Bioorg. & Med. Chem. Lett.</i> , 1998 , <i>8</i> , 1123-1126	
	BW	Hakugawa, J. et al., "The Inhibitory Effect of Anti-Adhesion Molecule Antibodies on Eosinophil Infiltration in Cutaneous Late Phase Response in Balb/c Mice Sensitized with Ovalbumin (OVA)," <i>J. Dermatol.</i> , 1997 , <i>24</i> , 73-79	
	BX	Hansske, F. et al., "2' and 3'-Ketonucleosides and their <i>Arabino</i> and <i>Xylo</i> Reduction Products", <i>Tetrahedron</i> , 1984 , <i>40</i> , 125-135	
	BY	Hansske et al., "Nucleic Acid Related Compounds. 43. A Convenient Procedure for the Synthesis of 2' and 3'-Ketonucleosides," <i>Tetra. Lett.</i> , 1983 , <i>24</i> (15), 1589-1592	
	BZ	Hegemann, L. et al., "Biochemical Pharmacology of Protein Kinase C and its Relevance for Dermatology", <i>Pharmacology of the Skin</i> , 1992 , <i>Ch. 22</i> , CRC Press, Boca Raton, 357-368	
	CA	Himelstein, B. P. et al., "Metalloproteinases in Tumor Progression: The Contribution of MMP-9," <i>Invasion & Metastasis</i> , 1994-95 , <i>14</i> , 246-258	
	CB	Ho, V.C. et al., "Treatment of severe lichen planus with cyclosporine", <i>J. Am. Acad. Dermatol.</i> , 1990 , <i>22</i> , 64-68	
	CC	Horton, N. C. et al., "The Structure of an RNA/DNA Hybrid: A Substrate of the Ribonuclease Activity of HIV-1 Reverse Transcriptase," <i>J. Mol. Biol.</i> , 1996 , <i>264</i> , 521-533	
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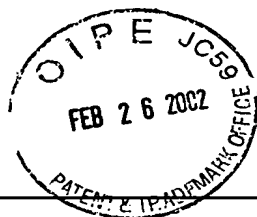
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	CD	Hua, J. et al., "Inhibition of Matrix Metalloproteinase 9 Expression by a Ribozyme Blocks Metastasis in a Rat Sarcoma Model System," <i>Cancer Res.</i> , 1996 , <i>56</i> , 5279-5284	
	CE	Hurtenbach, U. et al., "Prednisolone Reduces Experimental Arthritis and Inflammatory Tissue Destruction in Scid Mice Infected with <i>Borrelia Burgdorferi</i> ," <i>Int. J. Immunopharmac</i> , 1996 , <i>18</i> , 281-288	
	CF	Iribarren, A.M. et al., "Resistance to Degradation by Nucleases of (2'S)-2'-Deoxy-2'-C-methyloligonucleotides, Novel Potential Antisense Probes," <i>Antisense Res. Dev.</i> , 1994 , <i>4</i> (2), 95-98	
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	CH	Jaishree, T.N. et al., "Structural Influence of RNA Incorporation in DNA: Quantitative Nuclear Magnetic Resonance Refinement of d(CG)r(CG)d(CG) and d(CG)r(C)d(TAGCG)," <i>Biochem.</i> , 1993 , <i>32</i> , 4903-4911	
	CI	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990 , <i>259</i> , 327-330	
	CJ	Katocs, A.S. et al., "Biological Testing", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , <i>Ch. 27</i> , 484-494	
	CK	Kerr, L. D. et al., "TGF- β 1 Inhibition of Transin/Stromelysin Gene Expression Is Mediated Through a Fos Binding Sequence," <i>Cell</i> , 1990 , <i>61</i> , 267-278	
	CL	Kerr, L. D. et al., "Growth Factors Regulate Transin Gene Expression by c-fos-Dependent and c-fos-Independent Pathways," <i>Science</i> , 1988 , <i>242</i> , 1424-1427	
	CM	Kois, P. et al., "Synthesis and Some Properties of Modified Oligonucleotides. 2. Oligonucleotides Containing 2'-Deoxy-2'-Fluoro- β -D-Arabinofuranosyl Pyrimidine Nucleosides," <i>Nucleosides Nucleotides</i> , 1993 , <i>12</i> (10), 1093-1109	
	CN	Kroschwitz, J.I., "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , 1990 , John Wiley & Sons, New York, 858-859	
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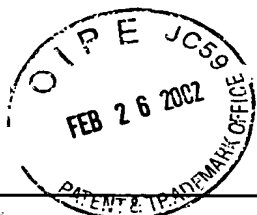
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	CO	Lane, A. N. et al., "NMR Assignments and Solution Conformation of the DNA-RNA Hybrid Duplex d(GTGAACCTT)-r(AAGUUCAC)," <i>Eur. J. Biochem.</i> , 1993 , 215, 297-306	
	CP	Lesnik, E.A. et al., "Oligodeoxynucleotides Containing 2'-O-Modified Adenosine" Synthesis and Effects on Stability of DNA:RNA Duplexes", <i>Biochem.</i> , 1993 , 32, 7832-7838	
	CQ	Lesnik, E. A. et al., "Relative Thermodynamic Stability of DNA, RNA, and DNA: RNA Hybrid Duplexes: Relationship with Base Composition and Structure," <i>Biochemistry</i> , 1995 , 34(34), 10807-10815	
	CR	Letsinger, R.L. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989 , 86, 6553-6556	
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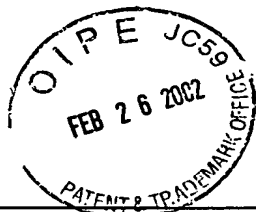
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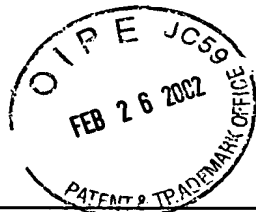
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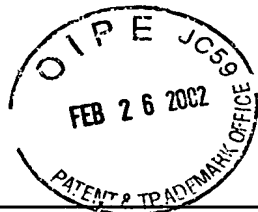


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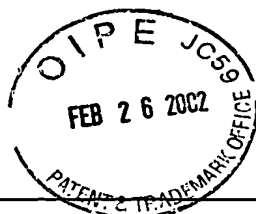


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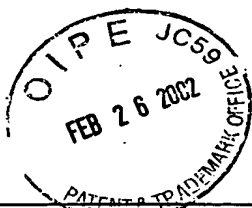
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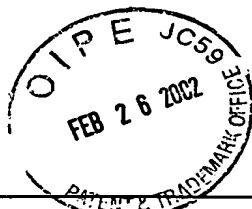
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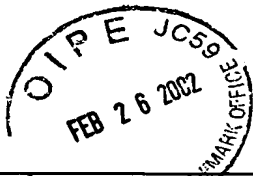
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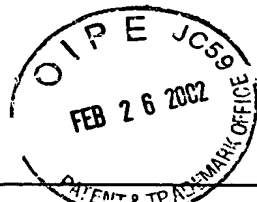
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	GP	Uesugi, S. et al., "A Linear Relationship Between Electronegativity of 2'-Substituents and Conformation of Adenine Nucleosides," <i>Tetrahedron Letts.</i> , 1979 , 42, 4073-4076	
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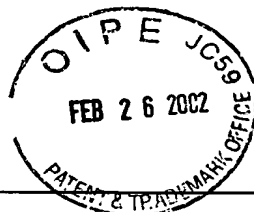
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	GW	3,687,808	08/29/72	Merigan et al.	195	28
	GX	4,689,320	08/25/87	Kaji	514	44
	GY	4,806,463	02/21/89	Goodchild et al.	435	5
	GZ	5,004,810	04/02/91	Draper	536	27
	HA	5,166,195	11/24/92	Ecker	514	44
	HB	5,194,428	03/16/93	Agrawal et al.	514	44
	HC	5,212,295	05/18/93	Cook	536	26.7
	HD	5,242,906	09/07/93	Pagano et al.	514	44
	HE	5,248,670	09/28/93	Draper et al.	514	44
	HF	5,442,049	08/15/95	Anderson et al.	536	24.5
	HG	5,457,189	10/10/95	Crooke et al.	536	24.5
	HH	5,514,577	05/07/96	Draper et al.	435	238
	HI	5,514,788	05/07/96	Bennett et al.	536	23.1
	HJ	5,523,389	06/04/96	Ecker et al.	536	23.1

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	HK	WO 89/12060	12/14/89	PCT		
	HL	WO 94/08003	04/14/94	PCT		
	HM	WO 92/03568	03/05/92	PCT		

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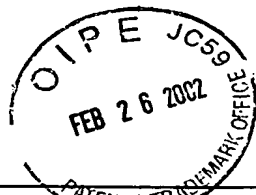
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	HN	5,580,767	12/03/96	Cowsert et al.	435	172.3
	HO	5,582,972	12/10/96	Lima et al.	435	6
	HP	4,381,344	04/1983	Rideout et al.	435	87
	HQ	5,013,830	05/07/91	Ohtsuka et al.	536	27
	HR	5,134,066	07/28/92	Rogers et al.	435	91
	HS	5,212,295	05/18/93	Cook	536	26.7
	HT	5,214,135	05/25/93	Srivastava et al.	536	26.7
	HU	5,466,786	11/14/95	Buhr et al.	536	26.26
	HV	5,658,731	08/19/97	Sproat et al.	435	6
	HW	5,672,695	09/30/97	Eckstein et al.	536	24.5
	HX	5,698,687	12/16/97	Eckstein et al.	536	25.3

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	HY	2,017,369	05/23/90	Canada	X	
	HZ	0 260 032	08/27/87	EP	X	
	IA	0 287 313	10/19/88	EP	X	
	IB	0 399 330	05/15/90	EP		X
	IC	0 417 999	03/10/91	EP	X	

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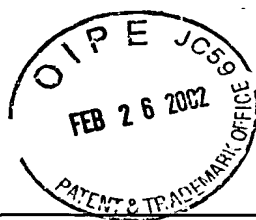
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	IE	5,627,053	05/06/97	Usman et al.	435	91
	IF	5,639,647	06/17/97	Usman et al.	435	199
	IG	5,817,635	10/06/98	Eckstein et al.	514	44
	IH	5,859,221	01/12/99	Cook et al.	536	23

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	II	39 15462 A1	06/09/90	Germany		X
	IJ	41 10085 A1	10/01/92	Germany		X
	IK	WO 90/15814	12/27/90	PCT	X	
	IL	WO 91/06556	05/16/91	PCT	X	
	IM	WO 91/15499	10/17/91	PCT		X
	IN	WO 92/07065	04/30/92	PCT	X	
	IO	339 842	11/02/89	EP		
	IP	0 552 178 B1	01/02/97	EP		
	IQ	1 205 021	05/27/86	Canada		

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	IR	5,582,986	12/10/96	Monia et al.	435	6	
	IS	5,591,600	01/07/97	Ecker	435	69.1	
	IT	5,591,623	01/07/97	Bennett et al.	435	240.2	
	IU	5,591,720	01/07/97	Anderson et al.	514	44	
	IV	5,607,923	03/04/97	Cook et al.	514	44	
	IW	5,620,963	04/15/97	Cook et al.	514	44	
	IX	5,639,649	06/17/97	Almond et al.	435	235.1	
	IY	5,658,891	08/19/97	Draper et al.	514	44	
	IZ	5,661,134	08/26/97	Cook et al.	514	44	
	JA	5,681,747	10/28/97	Boggs et al.	435	375	
	JB	5,681,944	10/28/97	Crooke et al.	536	24.5	
	JC	5,877,309	03/02/99	McKay et al.	536	24.5	
	JD	5,985,558	11/16/99	Dean et al.	435	6	
	JE	5,955,443	09/21/99	Bennett et al.	514	44	
	JF	6,111,094	08/29/00	Bennett et al.	536	24.5	
	JG	5,334,711	08/02/94	Sproat, et al.	536	24.5	
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